

CURRICULUM VITAE

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Education: M.S. Life Science Engineering, Tufts University, Boston, MA 1982
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Professional Experience:

2006-Present Vice President of Regulatory and Industrial Affairs, Charm Sciences
1994-2006 Vice President of Regulatory Affairs and Industrial Service, Charm Sciences
1986-1993 Plant Manager/ Assistant Plant Manager, Charm Sciences
1982-1985 Pilot Plant Design and Operation

Patents, Publications and Presentations:

Robert S. Salter, Gregory W. Durbin, Shishan Wang, Rami Abraham, and Stanley Charm - Same Day and Continuous Detection of Coliphage in Water- Poster Presented to the American Microbiological Society, Philadelphia 2009

Robert Salter- Standardization of a Chemiluminescent Method to Detect Alkaline Phosphatase in Liquid Dairy Products, Bulletin of the International Dairy Federation, v-435, May 2009

S. M. Albillios, R. Reddy and R. Salter- Comparison of Phosphatase Methods used for Milk Pasteurization Verification- Poster Presented to the Association of Analytical Chemists, Dallas Sep. 2008

L. Jackson, F. Al-Taher, M. Moorman, J. W. Devries, R. Tippett, K. M. J. Swanson, T-J Fu, R. Salter, G. Dunaif, S. Estes, S. Albillios, AND S. M. Gendel - Cleaning and Other Control and Validation Strategies To Prevent Allergen Cross-Contact in Food-Processing Operations - Journal of Food Protection, Vol. 71, No. 2, 2008, Pages 445-458

Robert Salter- Alkaline Phosphatase Detection via Chemiluminescence in 45 Seconds Using a One Step Assay- Poster presented to the International Association of Food Protection, Orlando July 2008

Robert Salter, David Conaway and Robert Markovsky - Validation of the SL-3 β -lactam Test for Screening Milk in Compliance with U.S. Pasteurized Milk Ordinance (PMO)- J. OF AOAC International Vol. 91, No. 3, March 2008

Robert Salter- Pork and Cow Kidney Screening Using the Kidney Inhibition Swab Test and the Fast Antimicrobial Swab Test in Slaughter Facilities- Poster Presented to Rapid Methods Europe, Jan. 2008

Al-Taher, L.S. Jackson, Robert S. Salter- Detection of Dried Egg Residues on a Stainless Steel Surface Using ELISA and Sensitive ATP Assays – Poster presented to International Food Technologists, Chicago 2007

Robert Salter, Stanley Charm, Robert Markovsky, Cheryl Francisco, Steven Saul- Method of Determining Allergenic Foods on Surfaces- Patent 7,132,249 Oct. 2006

Robert Salter, David Douglas, Mark Tess, Bob Markovsky, and Steven Saul- Interlaboratory Study of the Charm ROSA Safe Level Aflatoxin M1 Quantitative Test for Raw Bovine Milk- JAOAC 2006 (89), 1327-1334

Robert Salter and John Fitchen- Evaluation of a Chemiluminescence Method for Measuring Alkaline Phosphatase in Whole Milk of Multiple Species and Bovine Dairy Drinks: Interlaboratory Study- JAOAC 2006 (89), 1061-1070

Gregory Durbin and Robert Salter- Comparative Analysis of a Modified Ecolite Method, the Coliccomplete Method, and a Most-Probable-Number Method for Detecting *Escherichia Coli* in Orange Juice- Research Note: J. of Food Protection 2006 (69) 211-213

Julio Quintana-Rizzo, Robert Salter, Seang-Young Law, Torsten Peix, Kurt Peter Raezke- Improving Mass Spectrographic Confirmation of Antibiotic Contamination in Honey Using Charm HPLC Receptorgram- Poster 2005 Apimondia Meeting- Dublin Ireland

Robert Salter, Sue Hefle, Lauren Jackson, amy McBroom, and Katie Swanson- Use of a Sensitive Adenosine Triphosphate Method to Quickly Verify Wet Cleaning Effectiveness at Removing Food Soils and Allergens from Food Contact Surfaces- Poster Int. Assoc. of Food Protection conference August 2005- Orlando

Robert Salter, Martin Rossi, Steven Saul – Kidney Inhibition Swab (KIS) Test. Broad Spectrum Microbial Inhibition Test Meets Tolerances within 3 Hours - Poster AOAC conference September 2004- St. Louis

Greg Durbin and Robert Salter, Comparative analysis of modified Ecolite method and MPN method for detecting *Escherichia coli* in orange juice- Poster IFP conference August 2004- Phoenix

Julio Quintana-Rizzo, Robert Salter, Steven Saul - Reverse Phase Extraction Procedures Remove Potential Interferences in Charm II Sulfonamide, Streptomycin and Chloramphenicol Honey Assays- Apimondia Symposium- Celle Germany- 2004

Steven J. Saul, Cheryl B. Francisco, Robert Markovsky, Robert S. Salter, Stanley E. Charm, Preventing allergen cross contamination in foods with a simple hygiene test- 2nd Workshop on Allergens- CFIA (Canadian Food Inspection Authority)- Nov. 2003

Robert Salter- Live Animal Testing as Strategy for Antibiotic Residue Avoidance- Presented to USDA/FSIS September 2003.

Robert Salter - Charm II System - Comprehensive Residue Analysis System for Honey- Proceedings of Apiacta 38 (2003) 198-206

M. Mitchell, J. Samoluk, L. Spilsbury, M. Eastment, D. Legg, R. Salter, Development and Validation of a Screening Protocol for Identifying Sulfamethazine-Violative Swine Carcasses at Ontario Abattoirs Using the CHARM ROSA Sulfamethazine Test. Poster presentation AOAC Meeting- Atlanta, 2003

Quintana, J., Salter, R., and Saul, S., Confirmation of Amphenicols in Honey Using HPLC Receptorgram. Apiacta 38 (2003) 218-225

Robert Salter - Charm ROSA Aflatoxin Test at US Action Levels- FDA Southwest and Pacific Region Seminar Reno – November 2001

Robert Salter, Mary Bulthaus, Frank Fullman, Bob Fassio, Performance of the Charm SL Beta-lactam Test in Goat Milk, Poster presented at the International Food Protection Conference- San Diego 2002

Steven Saul, Cheryl Boyer, Robert Markovsky, Robert Salter, - β -lactam Test that Detects all 6 Required Beta-lactams at Safe Levels- - Proceedings of the National Mastitis Council- February 2002

R. S. Salter, D. Legg, N. Ossanna, C. Boyer, J. Scheemaker, R. Markovsky and S. Saul Charm SL β -lactam Test for Amoxicillin, Ampicillin, Ceftiofur, Cephapirin, and Penicillin G for FDA Safe Levels in Raw Commingled Bovine Milk- Journal of the Association of Analytic Chemists- V. February 2000

Steven Saul, Cheryl Boyer, Robert Markovsky, Robert Salter, Joan Lawton-Scheemaker and Stanley Charm- Charm SL (Safe Level) β -lactam Test- New on Farm Technology may Significantly Reduce Positive Milk Rejected by Other Screening Tests- Proceedings of the National Mastitis Council- February 1999

Robert Salter , Nancy Ossanna and David Legg- Charm II Tetracycline Test Modification to Detect New Tolerance of 300 ppb Total Tetracyclines- Proceedings of the National Mastitis Council- February 1999

Alternative Test Procedure Case #D95-0007- Charm E*Colite™ Presence/Absence Test for Detection and Identification of Coliform Bacteria and *Escherichia coli* in Drinking Water- Oct., 1997

Robert Salter- A Simple test for testing 3 Fecal Indicators in Water, Juice, and Milk -IAMFES Orlando Conf.- June 1997

R. Salter and T. Angstadt, Field Applied Somatic Cell Determination (Somalite) in Comparison to Foss (ESCC) Determination- Proceedings of the National Mastitis Council- February 1997

R. Salter, Max Gandman, A Single Unit Test for Measuring Coliforms, E.Coli and Salmonella in Fresh Non-Pasteurized Apple Cider (and other Juices)- FSIS Federal Register Meeting on Juice Safety- January 1997

E. Zomer and R. Salter, Charm II Test, Updates: Performance testing in USA and Performance in Incurred Studies., IDF-Euroresidues II, Brussels August 1995.

Acid Phosphatase a Cooking Indicator for Meat- IAMFES Pittsburgh Conf.- June 1995

R. Salter- 14 Lab Collaborative Study- Alkaline Phosphatase in Milk using the Charm ALP Test- Poster presentation IAMFAS Pittsburg Conf.-June 1995

R. Salter and E. Zomer, Coligel- Rapid Detection and Quantitation of Coliform and E. coli in Water Compared to m-Endo Agar- Poster presentation IAMFAS Pittsburg Conf.-June 1995

R. Salter, K. Bass, G. Smith, Vienna Sausages Experiences with Charm Luminator- A HACCP Friendly Test System., FSIS New Technologies HACCP Meeting - Chicago- April 1995.

T.Lieu. M. Gandman, E. Zomer, R. Salter & S.E. Charm, Screening for Sulfonamides and other Antimicrobial Substances in Livestock using Newly Developed Disk Assay., AOAC Conf.1989

S.E. Charm, E. Zomer, R. Salter, Confirmation of Widespread Sulfonamide Contamination in Northeast U.S. Market Milk., J. of Food Protection 51:920,1988.

E.J. Neer and R. Salter, Reconstituted Adenylate Cyclase from Bovine Brain., J. of Biol. Chem. 256:12102, 1981.

R. Salter, M. Krinks, C. Klee, and E.J. Neer, Calmodulin Activates the Isolated Catalytic Unit of Brain Adenylate Cyclase., J. of Biol. Chem. 256:9830, 1981.

E.J. Neer and R. Salter, Modification of Adenylate Cyclase Structure and Function by Ammonium Sulfate., J. of Biol. Chem. 256: 5497,1981.